## 2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 41

95/05/23,

WRIA	Listing ID Cat	egory	98 List?	Waterbody Name Basis	Location In	nformatio	n			Parameter	Medium Remarks
41	40945	5	N	COLUMBIA RIVER	NN57SG	657.65	16N	23E	20	Temperatur	e Water
and				Grant County PUD station WANW (Wanapum Tailrace) shows 57 excursions beyond the crit	erion in 200	<b>5</b> 0, 62 ex	cursions	s in 200	1, 30 excursions	in 2002, and 86	EPA has the lead in a temperature TMDL for the Columbia
anu				excursions in 2003.							Snakes Rivers that is underway.
41	9638	5	N	CRAB CREEK  Carroll et al. (2000) station CC0 (CRAB CREEK AT MOUTH TO MOSES LAKE) shows 3 e 03/01 - 09/01.	FU07MU xcursions be		-	28E on out		<b>pH</b> ected between	<b>Water</b> High pH
				U.S. Bureau of Reclamation station CBP061 (PARKERHORN AT 7NE CO RD) shows 6 exc 1993-1999	ursions bey	ond the	criterior	out of	21 samples collec	cted between	
41	9639	5	N	CRAB CREEK	FU07MU	25.808	20N	28E	35	рН	Water
				Carroll et al. (2000) station CC1 (CRAB CREEK NEAR MOSES LAKE (USGS GAGE)) show between 03/01 - 09/01.	ws 3 excursi	ions bey	ond the	criterio	on out of 7 sample	es collected	High pH
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A110 (CRAB CREEK NEAR Is samples collected between 1993 - 2001	MOSES LAK	KE) shov	ws 2 ex	cursion	s beyond the crite	rion out of 17	
41	9640	5	N	CRAB CREEK	FU07MU	31.816	20N	28E	15	рН	Water
				Carroll et al. (2000) station CC2 (CRAB CREEK AT STRATFORD ROAD) shows 4 excursion 09/01.	ons beyond t	the criter	rion out	of 6 sa	amples collected b	etween 03/01	- High pH
41	9642	5	N	CRAB CREEK	FU07MU	45.045	21N	28E	18	рН	Water
				Carroll et al. (2000) station CC4 (CRAB CREEK AT ROAD 16) shows 3 excursions beyond	the criterion	out of 7	samp	es coll	ected between 03	3/01 - 09/01.	High pH
41	9644	5	Υ	CRAB CREEK Carroll et al. (2000) station CC0 (CRAB CREEK AT MOUTH TO MOSES LAKE) shows 1 ex	FU07MU cursions be		-	28E on mea		Temperatur tes: 01/07/31,	e Water

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U.S. Bureau of Reclamation station CBP061 (PARKERHORN AT 7NE CO RD) shows 6 excursions beyond the criterion measured on these dates: 93/07/26,

WRIA	Listing ID Cat	egory	98 List?	Waterbody Name Basis	Location I	nformatio	n			Parameter	Remarks	Medium
41	8385	5	N	CRAB CREEK LATERAL  U.S. Bureau of Reclamation station CBP030 (CRAB CR LAT AT CRAB CR WW) shows 5 ex 1993-1999.  1 excursion beyond the criterion at USGS station 12472380 (at Royal Lake near Othello) on				<b>28E</b> on out o		<b>pH</b> ted between		Water
41	16143	5	N	DE55 WASTEWAY  U.S. Bureau of Reclamation station EID009 (DE 55 AND DE 49 BELOW CONFLUENCE) shoetween 1993-1999	RX99AF nows 3 exci	<b>0.209</b> ursions be	18N eyond th	<b>30E</b> ne crite		<b>pH</b> es collected	High pH	Water
41	16144	5	N	EL 63.8 WASTEWAY  U.S. Bureau of Reclamation station EID011 (EL 63.8 WASTEWAY BLW CONF EL63.8WW2 between 1993-1999	ON81WC 2) shows 3					<b>pH</b> mples collected	l High pH	Water
41	43265	5	N	FRENCHMAN HILLS LAKE USEPA National Lake Fish Tissue Study shows an excursion beyond the National Toxics Ru 10/20/1999 at location (Frenchman Hills Lake).		17N 2 in Larger		-	omposite samples co	<b>Dieldrin</b> ollected on		Tissue
41	16148	5	N	FRENCHMAN HILLS WASTEWAY  U.S. Bureau of Reclamation station CBP062 (FRENCHMAN HILLS WW AT GAGING STA) between 1993-1999;  U.S. Geological Survey data from NWIS database station 12471090 (on SE C Road near Mo collected between 1991 and 1995.		cursions	beyond	the cr	iterion out of 22 sam		- '	Water
41	8389	5	Y	FRENCHMAN HILLS WASTEWAY  9 excursions beyond the criterion at USGS station 12471090 (on SE C Road near Moses La  U.S. Bureau of Reclamation station CBP062 (FRENCHMAN HILLS WW AT GAGING STA) 93/06/02, 93/07/14,	,	1992, 199	93, and	1994.		Temperature these dates:	e	Water
41	42533	5	N	LIND COULEE Hallock (2004), Dept. of Ecology ambient station 41J070 shows 2 of 9 samples (22.2%) in year	<b>WZ45YS</b> ear 2003 ex			-		Fecal Colifo	orm	Water

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WRIA	Listing ID Ca	tegory	98 List?	Waterbody Name	Location Information	Parameter	Medium
				Basis			Remarks
41	6737	5	Y	LIND COULEE Hallock (2004), Dept. of Ecology ambient station 41J070 shows that 3 of 12 samples exceed	WZ45YS 10.448 18N 29E 35 I the criterion.	рН	Water
				U.S.Geological Survey data from NWIS database station 12471400 (at SR 17 near Warden) collected between 1991 and 2001.	shows 9 excursions beyond the criterion out of 178 sa	mples	
				U.S. Bureau of Reclamation station CBP011 (LIND COULEE AT RT 17XING) shows 4 excur 1999.	rsions beyond the criterion out of 20 samples collected	between 1993-	
41	8392	5	Y	LIND COULEE 5 excursions beyond the criterion at USGS station 12471400 (at SR 17 near Warden) during	<b>WZ45YS 10.448 18N 29E 35</b> 1992, 1993 and 1994.	Temperature	Water
				U.S. Bureau of Reclamation station CBP011 (LIND COULEE AT RT 17XING) shows 4 excu 96/07/09,	rrsions beyond the criterion measured on these dates:	93/07/26,	
41	8955	5	Υ	LOWER CRAB CREEK	WR93CG 0 15N 23E 03	4,4'-DDE	Tissue
				Davis and Johnson, 1994. excursions beyond the criterion of edible fish tissue (Mountain Wh	nitefish fillet) samples collected on 9/15/92 near Hwy 24	3.	The sample medium was incorrectly listed as "water" in the 1998 303(d) list.
41	8374	5	N	LOWER CRAB CREEK	WR93CG 8.303 16N 24E 33	рН	Water
				Hallock (2004), Dept. of Ecology ambient station 41A070 shows that 5 of 30 samples exceed	d the criterion.		Changed from Category 2 to Category 5 on 01/18/05 due to
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (CRAB CREEK NEAR Esamples collected between 1993 - 2001.	BEVERLY) shows 13 excursions beyond the criterion of	ut of 49	consolidation with Listing ID 11248kk
				1 excursion beyond the criterion at USBR station CBP072 (at Crab Creek Road) on 5/20/92.			
41	16147	5	N	LOWER CRAB CREEK	WR93CG 29.231 16N 26E 28	рН	Water
				U.S. Bureau of Reclamation station CBP036 (LOWER CRAB CK ABV CONF RED ROCK Co collected between 1993-1999	OULEE) shows 4 excursions beyond the criterion out of	of 4 samples	High pH
41	16154	5	N	LOWER CRAB CREEK	WR93CG 0.764 15N 23E 03	рН	Water
				U.S. Bureau of Reclamation station CBP072 (LOWER CRAB CR AT CRAB CR RD) shows between 1993-1999	7 excursions beyond the criterion out of 20 samples co	llected	High pH
41	16155	5	N	LOWER CRAB CREEK	WR93CG 57.426 16N 28E 09	рН	Water
				U.S. Bureau of Reclamation station CBP079 (LOWER CRAB CR AT MCMANNAN RD) show between 1993-1999	ws 9 excursions beyond the criterion out of 21 samples	collected	High pH

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WRIA	Listing ID Cate	egory	98 List?	Waterbody Name Basis	Location Ir	nformation	ı			Parameter	Medium Remarks
41	8378	5	Y	LOWER CRAB CREEK 4 excursions beyond the criterion at USGS station 12472600 (mouth near Beverly) during 19	<b>WR93CG</b> 992, 1993, a	-	15N	23E (	03	Temperature	e Water
<b>41</b>	8379	5	N	LOWER CRAB CREEK  Dept. of Ecology unpublished data from core ambient monitoring station 41A070 (Crab Cr. r	WR93CG near Beverly			24E : mean of		Temperature	Combined with information from Listing ID 3728 (which was
				mid-week 13 August 2001.  Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41A070 (CRAB CREEK NEAR collected between 1993 - 2001.  Davis, 1993, 1 excursion beyond the criterion at 1st bridge on Crab Creek Road on 5/30/92.	,	shows 7 ex	xcursio	ns beyo	and the criterion ou	ut of 49 samples	Category 5). Changed this listing to Category 5kk
41	8953	5	Y	LOWER CRAB CREEK  Davis and Johnson, 1994. excursions beyond the criterion of edible fish tissue (Mountain W	WR93CG hitefish fillet)	-	_	<b>23E</b> (ed on 9/		Total PCBs 43.	Tissue
41	42434	5	N	MOSES LAKE Seiders, 2004. shows the National Toxics Rule criterion was exceeded in Rainbow trout fille	995AYH et samples co			<b>47.105</b> 02.	119.325	2,3,7,8-TCDI	D Tissue
41	42171	5	N	MOSES LAKE Seiders, 2004. shows the National Toxics Rule criterion was exceeded in Largemouth bass	995AYH and Rainbov			<b>47.105</b> les colle		Total PCBs	Tissue
41	42782	5	N	MOSES LAKE  Department of Ecology TMDL Assessment, station ML4 (SOUTH END OF PARKER HORN 5/30/01; 7/2/01; 8/1/01; 8/29/01; 9/26/01) exceeded the Phosphorus Action Value of 50ug/L  Department of Ecology Lake Database, station 1 shows in 2000, 1 of 4 epilimnion samples of 7/19/00; 8/30/00; 9/27/00) exceeded the Phosphorus Action Value established by Carroll, et Department of Ecology Lake Database, station 1 shows in 1998, 3 of 4 epilimnion samples of 7/15/98; 8/12/98; 9/16/98) exceeded the Phosphorus Action Value of 50ug/L established by	established collected by t. al., 2000. (collected by	001, 0 of 5 by Carroll, Departmei Ecology P	s epilim , et. al., nt of Ed ublicati	, 2000. cology (sion No. (cology (s	mples collected (s sampling dates: 6, 00-03-036). sampling dates: 6,	/28/00;	
41	11232	5	N	MOSES LAKE OUTLET  Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41H050 (MOSES LAKE AT SO samples collected between 1993 - 2001	833WBK			<b>47.085</b> ursions l		<b>pH</b> on out of 3	<b>Water</b> High pH

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WRIA	Listing ID Categor	y 98 List	Waterbody Name	Location I	nformatio	on				Parameter		Medium
			Basis								Remarks	
41	16151 5	N	PE 16.4 M12 WASTEWAY	BJ83CP	0	15N	28E	07		рН		Water
			U.S. Bureau of Reclamation station EID017 (PE 16.4M12 WASTEWAY AT FU 223 BLK 49) between 1993-1999	shows 4 e	xcursion	s beyon	d the cr	riterion	out of 4 san	nples collected	High pH	
41	8945 5	Υ	POTHOLES RESERVOIR	833WBK	46119	J1J7	46.99	5	119.175	Dieldrin		Tissue
			Serdar, et al. 1994. excursions beyond the criterion in edible fish tissue (Largemouth Bass) of Spillway) on 6/8/92.	collected fro	m statio	n 35855	3 (300r	m off o	f mouth of L	ind Coulee		
41	8946 5	Υ	POTHOLES RESERVOIR	833WBK	46119	J3I4	46.98	<b>3</b> 5	119.345	Dieldrin		Tissue
			Serdar, et al. 1994. excursions beyond the criterion in edible fish tissue (Lake Whitefish) coll Wasteway) on 6/8/92.	ected from	station 3	58551 (	400m o	off of m	outh of Frer	nchman Hills		
41	16157 5	N	RBC WASTEWAY	PE38ZZ	0	16N	23E	35		рН		Water
			U.S. Bureau of Reclamation station CBP109 (RBC WASTEWAY AT LOWER CRAB CK RD samples collected between 1993-1999	S35 T16N	R23E) s	hows 12	2 excurs	sions b	eyond the c	riterion out of 27	' High pH	
41	16145 5	N	RCD WASTEWAY	LK87EA	2.105	18N	29E	31		рН		Water
			U.S. Bureau of Reclamation station CBP008 (RCD WW AT OSULLIVAN RD XING) shows 4 1993-1999	4 excursion	s beyond	I the crit	erion o	ut of 2	1 samples c	ollected betweer	n High pH	
41	17230 5	N	REDROCK LAKE	313FEZ	16N	26E 1	17			4,4'-DDE		Tissue
			Davis et al. 1998. show the National Toxic Rule criterion was exceeded a composite of 5 fille REDRLRC (REDROCK LAKE SOUTHEAST OF ROYAL CITY).	ets of Micro	oterus sa	Imoides	collect	ted on	9/13/1995 a	t station		
41	17231 5	N	REDROCK LAKE	313FEZ	16N	26E 1	17			Dieldrin		Tissue
			Davis et al. 1998. show the National Toxic Rule criterion was exceeded a composite of 5 fill REDRLRC (REDROCK LAKE SOUTHEAST OF ROYAL CITY).	ets of Micro	pterus s	almoide	s collec	ted on	9/13/1995 a	at station		
41	11245 5	N	ROCKY COULEE WASTEWAY	SF91XC	0.948	19N	28E	01		рН		Water
			Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41G070 (ROCKY COULEE WA samples collected between 1993 - 2001	STEWAY	k NE)	shows	3 excur	sions l	beyond the o	criterion out of 6	High pH	
			U.S. Bureau of Reclamation station EID003 (ROCKY COULEE WASTEWAY AT BROADWA samples collected between 1993-1999	AY EXTENI	DED) sho	ows 4 e	xcursio	ns bey	ond the crite	erion out of 4		
41	16150 5	N	ROCKY COULEE WASTEWAY	LK87EA	13.072	19N	28E	36		рН		Water
			U.S. Bureau of Reclamation station EID005 (ROCKY COULEE DRAIN AT HWY 17) shows 1993-1999	4 excursion	ns beyon	d the cr	terion o	out of 4	samples co	ollected between	High pH	

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RC52FG 21.961 20N 27E 08

рH

Cusimano (1998) station ROC8 (ROCKY FORD CR AT BARRIER DAM) shows 1 excursions beyond the criterion out of 2 samples collected between 08/97 -High pH

Cusimano (1998) station ROC7 (ROCKY FORD CR A/B DETENTION POND) shows 1 excursions beyond the criterion out of 2 samples collected between 08/97 -

Carroll et al. (2000) station RF0 (ROCKY FORD CREEK BELOW ABATEMENT DAM) shows 3 excursions beyond the criterion out of 10 samples collected between 03/01 - 09/01.

Carroll et al. (2000) station RF1 (ROCKY FORD CREEK ABOVE ABATEMENT POND) shows 0 excursions beyond the criterion out of 5 samples collected between 03/01 - 09/01.

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WRIA	Listing ID Cat	egory	98 List?	Waterbody Name Basis	Location I	nformat	on			Parameter	Remarks	Medium
41	8397	5	Y	ROCKY FORD CREEK  Hallock (2001) Dept. of Ecology Ambient Monitoring Station 41D070 (ROCKY FORD CREE samples collected between 1993-2001 measured on these dates: 01/05/13, 01/06/10.	RC52FG K AT HWY		<b>5 20N</b> vs 2 exc			Temperature on out of 6		Water
				Carroll et al. (2000) station RF1A (ROCKY FORD CREEK @ HWY17) shows 1 excursions be Cusimano (1998) station ROC6 (ROCKY FORD CR AT OLD HWY 17 BRIDGE) shows 1 ex	•					97/08/20.		
				2 excursions beyond the criterion at USGS 12470600 (at SR 17 near Ephrata) on 7/13/92 and 6/29/94.  U.S. Bureau of Reclamation station CBP060 (ROCKY FORD CR AT RT 17) shows 8 excursions beyond the criterion measured on these dates: 93/06/02, 93/07/19.								
41	17217	5	N	ROYAL LAKE	000BAA	00U	XXU	00		4,4'-DDE		Tissue
				Davis et al. 1998. show the National Toxic Rule criterion was exceeded a composite of 5 fill ROYALLO (ROYAL LAKE NORTHWEST OF OTHELLO).	lets of Micro	opterus o	lolomieu	i colled	cted on 9/13/1995 at	t station		
41	17218	5	N	ROYAL LAKE  Davis et al. 1998. show the National Toxic Rule criterion was exceeded a composite of 5 fill ROYALLO (ROYAL LAKE NORTHWEST OF OTHELLO).	000BAA lets of Micro		XXU (		cted on 9/13/1995 at	<b>Dieldrin</b> t station		Tissue
41	6738	5	N	SAND HOLLOW CREEK  U.S.Geological Survey data from NWIS database station 12464606 (near Vantage) shows between 1992 and 1997.	<b>DI77OE</b> 8 excursion	<b>2.472</b> s beyon				<b>pH</b> ollected	High pH	Water
41	8398	5	Y	SAND HOLLOW CREEK 7 excursions beyond the criterion at USGS station 12464606 (near Vantage) between 1992,	<b>DI770E</b> , 1993 and	<b>2.472</b> 1994.	17N	23E	27	Temperature		Water
41	16156	5	N	UNNAMED CREEK U.S. Bureau of Reclamation station CBP080 (DCC1 AT RED ROCK COULEE RD) shows 1 1993-1999.	MB83BM 1 excursion	-		<b>26E</b> terion o		<b>pH</b> ollected between	High pH	Water
41	16153	5	N	W35.9B WASTEWAY U.S. Bureau of Reclamation station CBP086 (W35.9B WW AT END) shows 6 excursions be	<b>DA61BM</b> eyond the c					<b>pH</b> n 1993-1999	High pH	Water

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